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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/680,379	10/06/2003	Hagen Klauk	MUH-12807	5870
24131	7590 03/17/2006		EXAMINER	
LERNER G	REENBERG STEMI	CHACKO DAVIS, DABORAH		
P O BOX 248	· -		ART UNIT .	PAPER NUMBER
HOLLYWOO	DD, FL 33022-2480		1756	
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DATE MAILED: 03/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/680,379	KLAUK ET AL.			
Office	Action Summary	Examiner	Art Unit			
		Daborah Chacko-Davis	1756			
The MAIL Period for Reply	ING DATE of this communication app	pears on the cover sheet with th	e correspondence address	-		
WHICHEVER IS - Extensions of time r after SIX (6) MONTI - If NO period for repl - Failure to reply withi Any reply received b	STATUTORY PERIOD FOR REPL'S LONGER, FROM THE MAILING Donay be available under the provisions of 37 CFR 1.1 HS from the mailing date of this communication. It is precised above, the maximum statutory period on the set or extended period for reply will, by statute by the Office later than three months after the mailing adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply b will apply and will expire SIX (6) MONTHS f , cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communicat DNED (35 U.S.C. § 133).			
Status						
1) Responsiv	ve to communication(s) filed on 06 F	ebruary 2006	•			
		action is non-final.				
· <u> </u>	application is in condition for allowa		prosecution as to the merits	sis		
closed in	accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11	453 O.G. 213.			
Disposition of Clai	ms					
4)⊠ Claim(s) <u>1</u>	1-24 is/are pending in the application					
4a) Of the	4a) Of the above claim(s) 16-24 is/are withdrawn from consideration.					
5)☐ Claim(s) _	is/are allowed.					
6)⊠ Claim(s) <u>1</u>	/ <u>-15</u> is/are rejected.	•				
7) Claim(s) _	Claim(s) is/are objected to.					
8) Claim(s) _	are subject to restriction and/o	r election requirement.				
Application Papers	3					
9) The specif	ication is objected to by the Examine	r.				
10) ☐ The drawir	ng(s) filed on is/are: a)□ acc	epted or b) objected to by the	ne Examiner.			
Applicant n	nay not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
	ent drawing sheet(s) including the correct		· ·			
11)⊡ The oath o	r declaration is objected to by the Ex	caminer. Note the attached Off	ice Action or form PTO-152.	•		
Priority under 35 U	l.S.C. § 119					
•	lgment is made of a claim for foreign ☑ Some * c)☑ None of:	priority under 35 U.S.C. § 119	(a)-(d) or (f).			
1.⊠ Cer	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	pies of the certified copies of the prio		eived in this National Stage			
	lication from the International Bureau					
* See the atta	ached detailed Office action for a list	of the certified copies not rece	ived.			
•						
	•					
Attachment(s)						
	es Cited (PTO-892)	4) Interview Summ				
	rson's Patent Drawing Review (PTO-948) sure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mai	l Date al Patent Application (PTO-152)			
Paper No(s)/Mail D		6) Other:				

DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group I, claims 1-15, in the reply filed on February 6, 2006, is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Claims 16-24, are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-15, are rejected under 35 U.S.C. 102(b) as being anticipated by U. S. Patent No. 5,942,374 (Smayling).

Smayling, in the abstract, in col 1, lines 58-67, in col 2, lines 1-16, in col 5, lines 21-67, discloses a method of doping an organic conductive layer wherein a substrate is coated with a polyimide, and doped with a dopant gas followed by exposure through a mask to radiation so as to form a doped region (fixing the doping substance in the polyimide layer via a covalent bond, i.e., conjugated sequences of single and double bond, the doped region becomes conducting). Smayling, in col 10, lines 12-17,

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discloses that the remaining portion (less doped, residual dopant) of the mask layer (polyimide or PR) is removed. Smayling, in col 6, lines 56-67, discloses a gate electrode provided with a layer that is less transmissive (a more absorbing layer, light opaque regions) above the gate electrode resulting is a less irradiated region (unexposed sections). Smayling, in col 5, lines 35-42, discloses that the organic layer is heavily irradiated so as to form a doped and undoped region in the polyimide layer such that the source and drain regions are in electrical contact with the doped portion of the doped polyimide region having increased electricity (see figure 1, current flows from reference 18 to reference 20 via channel reference 24). Smayling, in col 1, lines 57-67, in col 2, lines 1-17, in col 4, lines 1-54, discloses that the substrate is transparent to radiation (glass), forming source region, drain region spaced apart from the gate region. forming a gate dielectric (gate insulating region) positioned spaced apart from the source and drain regions and spaced apart from the gate electrode, wherein the source. the drain, the gate insulator, the gate electrode are spaced apart with the organic semiconducting layer (claims 1-3, 6-9, 12). Smayling, in col 5, lines 43-49, in col 7, lines 1-8, discloses that the exposure is performed section by section (selectively scan one portion at a time) (claims 4, 10-11). Smayling, in col 6, lines 56-58, discloses that the exposure is performed through a mask (claim 5). Smayling, in col 1, lines 65-67, in col 2, liens 1-3, discloses that the source region, the drain region and the gate region are simultaneously formed on the substrate (claim 13). Smayling, in col 10, lines 60-67, discloses that the gate insulating material includes material transparent to radiation (transmissive regions, reference 20a of layer 16, see figure 15) (claims 14-15).

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daborah Chacko-Davis whose telephone number is (571) 272-1380. The examiner can normally be reached on M-F 9:30 - 6:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark F Huff can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

dcd

March 13, 2006.

JOHN A MCPHERSON PRIMARY EXAMINER

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